

CLAIMS

1. Device for producing bored piles having an auger, which along at least part of the auger length is surrounded by a rotating encasing tube and during boring the encasing tube is rotated in or counter to the rotation direction of the auger and in which the auger and the encasing tube are introduced essentially simultaneously into the ground during boring, wherein to facilitate material discharge, the surface roughness of the auger helix surface pointing in the feed direction is increased compared with the roughness of the rolled surfaces in a complete or partial surface manner by additional machining, and the increase in the surface roughness extends at least over the auger length necessary for feed purposes.
2. Device according to claim 1, wherein the surface roughness is produced by substantially punctiform prominences and/or depressions, at least on the helix surfaces directed in the feed direction.
3. Device according to claim 1, wherein the surface roughness is obtained by essentially linear prominences and/or depressions.
4. Device according to claim 3, wherein the linear prominences and/or depressions essentially pass from the core tube to the outer edge of the auger helix.
5. Device according to claim 3, wherein the linear prominences and/or depressions are essentially continuous and/or interrupted.
6. Device according to claim 3, wherein the linear prominences and/or depressions are curved and/or rectilinear.

7. Device according to claim 2, wherein the prominences and/or depressions are produced by welding, burning, rolling, pressing, drilling, punching or machining.
8. Device according to claim 1, wherein the increased surface roughness takes place by full or partial-surface coating of at least the helix surface directed in the feed direction, circular or angular grains of wear-resistant material being non-positively connected to the auger helix surface by means of an adhesive matrix.
9. Device according to claim 8, wherein the grains are of hard materials such as e.g. metal, carbon compounds, carbides, corundum and minerals.
10. Device according to claim 1, wherein increased surface roughness is brought about by sandblasting or comparable procedures.